

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-10. (canceled)

11. (new) A method for processing workpiece surfaces which are to be supplied with lubricant when the workpiece is in use, said method comprising

incorporating capillaries (9) in the workpiece surface (4) by means of high-pressure water jets (8), these capillaries (9) serving as lubricant reservoirs when the workpiece (3) is in use and having a ratio of their width (b) to their depth (t) of 1:2 to 1:10 with a width (b) of 10 to 60 μm and a depth (t) of 60 to 120 μm .

12. (new) The method as claimed in claim 11, wherein the workpiece surface (4) to be machined is a cylinder running surface (4a) of a cylinder liner (3a) of an internal combustion engine (1).

13. (new) The method as claimed in claim 12, wherein a piston (10) runs along the cylinder running surface (4a) between a top dead center (TDC) and a bottom dead center (BDC), and wherein the capillaries (9) are incorporated in a region directly below the top dead center (TDC) of the piston (10) moving relative to the cylinder running surface (4a).

14. (new) The method as claimed in claim 12, wherein a piston (10) runs along the cylinder running surface (4a) between a top dead center (TDC) and a bottom dead center (BDC), and wherein the capillaries (9) are incorporated in a region directly above the bottom dead center (BDC) of a piston (10) moving relative to the cylinder running surface (4a).

15. (new) The method as claimed in claim 11, wherein the high-pressure water jets (8) are discharged by a lance (6) having a plurality of high-pressure nozzles (7), with one to eight high-pressure nozzles (7) being arranged around the periphery of the lance (6).

16. (new) The method as claimed in claim 15, wherein the lance (6) is rotated at 10 to 1000 rev/min.

17. (new) The method as claimed in claim 15, wherein the lance (6) is rotated at 100 to 500 rev/min.

18. (new) The method as claimed in claim 11, wherein the high-pressure water jets (8) are discharged at a pressure of 1800 to 3200 bar.